

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-033120

(43)Date of publication of application : 02.02.2000

(51)Int.Cl.

A61M 16/00
A62B 7/02

(21)Application number : 10-202606

(71)Applicant : IWATANI INTERNATL CORP
IWATANI INDUSTRIAL GASES
CORP

(22)Date of filing : 17.07.1998

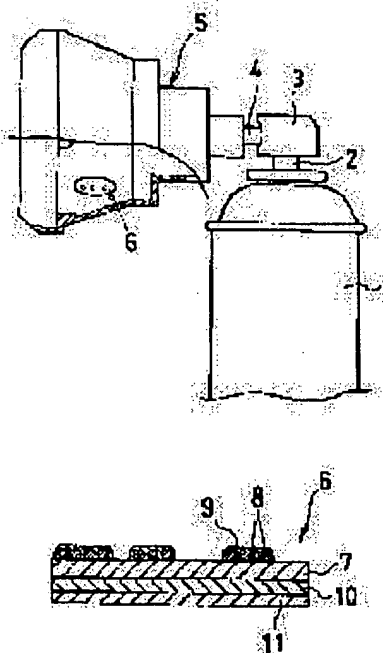
(72)Inventor : ASAMI YUKIO
KAJIYAMA TETSUO
MATSUMOTO KAZUTO

(54) INHALATION TOOL FOR SCENTED OXYGEN

(57)Abstract:

PROBLEM TO BE SOLVED: To provide an oxygen inhalation tool to be able to add a scented having steady density into an inhaled oxygen.

SOLUTION: The surface of a sheet material 7 is printed with a printing ink 9 into which a microcapsule 8 having an enclosed scented component is mixed. An adhesive agent layer 10 is formed on the back of the sheet material 7, and a released paper 11 is stuck onto the surface of the adhesive agent layer 10 to form an aromatic label 6. The aromatic label 6 is stuck to the inside of an inhalation mask 5 attached to an oxygen gas can 1. In the case of inhaling the oxygen, a sweet smell is emitted by crushing the microcapsule 8 formed on the label 6.



LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of

rejection]

[Kind of final disposal of application other than
the examiner's decision of rejection or
application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's
decision of rejection]

[Date of requesting appeal against examiner's
decision of rejection]

[Date of extinction of right]

Copyright (C); 1998,2003 Japan Patent Office

*** NOTICES ***

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

CLAIMS

[Claim(s)]

[Claim 1] While printing on the surface of a web material (7) by the printing ink (9) which mixed the microcapsule (8) with which the scent component is enclosed and forming an adhesives layer (10) in the rear face of a web material (7) Stick a releasing paper (11) on the front face of an adhesives layer (10), it is attached [it is fragrant, and] to it, and a label (6) is formed. The inhalation implement of the oxygen with a scent which emitted aroma by making it stick on this inside of the suction mask (5) which was fragrant, was attached and equipped the oxygen gas can (1) with the label (6), and crushing the microcapsule (8) currently formed in the label (6) at the time of oxygen suction.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] Especially this invention relates to the inhalation implement which gives a scent to inhalation oxygen about the inhalation implement of the oxygen for inhalation.

[0002]

[Description of the Prior Art] Attracting oxygen for the purpose of a dissolution has come to be briskly performed in recent years in the recovery from fatigue after movement, a hangover when sleepiness arises, drunken sickness, etc. Then, in order to carry out oxygen suction conveniently, oxygen is stored by the about two 9 kg/cm pressure in a can, a suction mask is attached in the bulb located in the can upper wall, and the oxygen can for simple inhalation it was made to make a bulb open manually is offered.

[0003] However, since that an inhalation person could not recognize easily the check of the regurgitation of oxygen not only becomes inadequate, but that it was inhaling oxygen since oxygen is the gas of colorless tasteless no odor, neither quantitative satisfaction nor invigoration was acquired. Then, what can demonstrate the killing effect etc. as add perfume, such as a herb, to the oxygen gas in an oxygen can, and it makes it emit to it in recent years, and a herb component can be inhaled [what] simultaneously, while enabling it to inhale as oxygen been fragrant and attached at the time of oxygen inhalation is offered (JP,63-222770,A).

[0004]

[Problem(s) to be Solved by the Invention] However, make an oxygen air current attract the oxygen gas with the conventional scent, and it prepares a liquid perfume stores dept. in the oxygen gas supply path in a gas storage can, and makes perfume to make it supply in the shape of a fog, or adhere to a filter, and it was made to scent oxygen by passing an oxygen air current.

[0005] However, also with liquid perfume, since it was volatility, when oxygen gas with a deep scent with which it is choked will flow out when the component of a scent volatilizes gradually within an oxygen can also during storage and it draws in first after a long term storage, abundance use is carried out and a quantity to be stored decreases, oxygen gas with a thin scent will flow out, and the component of a scent had the problem that the scent in inhalation oxygen was not stabilized. this invention aims at offering the oxygen inhalation implement which can be added by the concentration stabilized in the delicate scent in inhalation oxygen paying attention to a such point.

[0006]

[Means for Solving the Problem] In order to attain the above-mentioned purpose, this invention is characterized by emitting aroma by [which stuck the releasing paper on the front face of an adhesives layer] it being fragrant, and being attached, sticking a label on the inside of a suction mask, and crushing a microcapsule at the time of use while it is printed on the surface of a web material by the printing ink which mixed the microcapsule with which the scent component is enclosed and forms an adhesives layer in the rear face of a web material.

[0007]

[Function of the Invention] In this invention, the printed label which mixed the microcapsule with which the scent component is enclosed and which can carry out printing ink is stuck on the inside of a suction mask, and from making it crush a microcapsule at the time of use, with the amount of the microcapsule to crush, in being able to set the amount of the scent to add as a user's favorite concentration, a scent can also be carried out [scent / favorite / of a user].

[0008]

[Embodiments of the Invention] The oxygen can with which drawing shows the operation gestalt of this invention, drawing 1 is the enlarged view of an important section, and, as for the sign in drawing (1), it fills up with the oxygen of about 9 kg/cm² (gage pressure), When the gas derivation pipe projected from the upper surface of an oxygen can in the state in which **** movement is possible, and (3) are injection valve operation plugs currently attached in upper-limit opening of a gas derivation pipe (2), they push in an injection valve operation plug (3) and operate, (2) The injection valve which the gas derivation pipe (2) carried out ** ON movement, and omitted illustration is opened, and it constitutes so that the oxygen with which it fills up in the oxygen can (1) may be emitted through a gas derivation pipe (2).

[0009] The sideways gas port (4) has protruded and, as for the injection valve operation plug (3), attachment fixation of the suction mask (5) has been carried out removable at this gas port (4). And when this suction mask (5) is made to secede from a gas port (4), it has come to be able to carry out **** fixation of the gas derivation pipe (2) and injection valve operation plug (3) which have been projected from the oxygen can (1) in the state of a wrap at the drum section upper-limit section of oxygen (1).

[0010] It is fragrant, and is attached to the inside of a suction mask (5), and the label (6) is stuck on it possible [exchange]. The adhesives layer (10) formed in the rear face while printing by the printing ink (9) which mixed the microcapsule (8) with which it is fragrant in this front face of the web material (7) which was been fragrant and attached and formed the label (6) for air permeability materials, such as textile fabrics, a nonwoven fabric, Japanese paper, and western paper, and the component is enclosed is covered with an ablation sheet (11), and it has formed.

[0011] Are fragrant, and a microcapsule (8) is crushed and the scent component in a microcapsule (6) is made to be attached and to diffuse in a suction mask (5) by [which scratch the front face of a label (6) one and carries out it by the presser foot stitch tongue, the pin, etc.] being stuck on the inside of a suction mask (5) at the time of oxygen suction. This suction mask (5) will attract with oxygen the scent diffused in the suction mask (5) from the wrap in the mouth and the nose at the time of oxygen suction.

[0012] In addition, as a scent component enclosed into a microcapsule (8), when the essential oil of a herb is used, in addition to the scientific effect by oxygen suction, the killing effect and the upsurge effect which a herb has can be acquired.

[0013] Although the above-mentioned embodiment explained to the example the suction mask (5) with which the injection valve operation plug (3) attached at the nose of cam of a gas derivation pipe (2) is equipped, you may be the suction mask of the form which makes direct connection connection of the suction mask (5) at the nose of cam of a gas derivation pipe (2). Moreover, you may be the suction mask of form with which equips a pocket oxygen storage container with a gas extraction valve, and the gas output port of this gas extraction valve is equipped directly.

[0014]

[Effect of the Invention] The printed label which mixed the microcapsule with which the scent component is enclosed in this invention and which can carry out printing ink is stuck on the inside of a suction mask. By adjusting the amount of the microcapsule to crush from making it crush a microcapsule at the time of use, even a little deep scent from a delicate scent In being able to adjust the concentration of a user's liking scent, when a user chooses the label of a favorite scent and sticks on a suction mask, the scent of inhalation oxygen can be changed according to taste.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

TECHNICAL FIELD

[Field of the Invention] Especially this invention relates to the inhalation implement which gives a scent to inhalation oxygen about the inhalation implement of the oxygen for inhalation.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

PRIOR ART

[Description of the Prior Art] Attracting oxygen for the purpose of a dissolution has come to be briskly performed in recent years in the recovery from fatigue after movement, a hangover when sleepiness arises, drunken sickness, etc. Then, in order to carry out oxygen suction conveniently, oxygen is stored by the about two 9 kg/cm pressure in a can, a suction mask is attached in the bulb located in the can upper wall, and the oxygen can for simple inhalation it was made to make a bulb open manually is offered.

[0003] However, since that an inhalation person could not recognize easily the check of **** of oxygen not only becomes inadequate, but that it was inhaling oxygen since oxygen is the gas of colorless tasteless no odor, neither quantitative satisfaction nor invigoration was acquired. Then, what can demonstrate the killing effect etc. as add perfume, such as a herb, to the oxygen gas in an oxygen can, and it makes it emit to it in recent years, and a herb component can be inhaled [what] simultaneously, while enabling it to inhale as oxygen been fragrant and attached at the time of oxygen inhalation is offered (JP,63-222770,A).

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

EFFECT OF THE INVENTION

[Effect of the Invention] The amount of the microcapsule to crush is adjusted from sticking the printed label which mixed the microcapsule with which the scent component is enclosed in this invention and which can carry out printing ink on the inside of a suction mask, and making it crush a microcapsule at the time of use. From a delicate scent, in being able to adjust the concentration of a user's liking scent, even a little deep scent can change the scent of inhalation oxygen according to taste, when a user chooses the label of a favorite scent and sticks on a suction mask.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

TECHNICAL PROBLEM

[Problem(s) to be Solved by the Invention] However, make an oxygen air current attract the oxygen gas with the conventional scent, and it prepares a liquid perfume stores dept. in the oxygen gas supply path in a gas storage can, and makes perfume to make it supply in the shape of a fog, or adhere to a filter, and it was made to scent oxygen by passing an oxygen air current.

[0005] However, also with liquid perfume, since it was volatility, when oxygen gas with a deep scent with which it is choked will flow out when the component of a scent volatilizes gradually within an oxygen can also during storage and it draws in first after a long term storage, abundance use is carried out and a quantity to be stored decreases, oxygen gas with a thin scent will flow out, and the component of a scent had the problem that the scent in inhalation oxygen was not stabilized. this invention aims at offering the oxygen inhalation implement which can be added by the concentration stabilized in the delicate scent in inhalation oxygen paying attention to a such point.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

MEANS

[Means for Solving the Problem] In order to attain the above-mentioned purpose, this invention is characterized by emitting aroma by [which stuck the releasing paper on the front face of an adhesives layer] it being fragrant, and being attached, sticking a label on the inside of a suction mask, and crushing a microcapsule at the time of use while it is printed on the surface of a web material by the printing ink which mixed the microcapsule with which the scent component is enclosed and forms an adhesives layer in the rear face of a web material.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

OPERATION

[Function of the Invention] In this invention, the printed label which mixed the microcapsule with which the scent component is enclosed and which can carry out printing ink is stuck on the inside of a suction mask, and from making it crush a microcapsule at the time of use, with the amount of the microcapsule to crush, in being able to set the amount of the scent to add as a user's favorite concentration, a scent can also be carried out [scent / favorite / of a user].

[0008]

[Embodiments of the Invention] The oxygen can with which drawing shows the operation gestalt of this invention, drawing 1 is the enlarged view of an important section, and, as for the sign in drawing (1), it fills up with the oxygen of about 9 kg/cm² (gage pressure), When the gas derivation pipe projected from the upper surface of an oxygen can in the state in which **** movement is possible, and (3) are injection valve operation plugs currently attached in upper-limit opening of a gas derivation pipe (2), they push in an injection valve operation plug (3) and operate, (2) The injection valve which the gas derivation pipe (2) carried out ** ON movement, and omitted illustration is opened, and it constitutes so that the oxygen with which it fills up in the oxygen can (1) may be emitted through a gas derivation pipe (2).

[0009] The sideways gas port (4) has protruded and, as for the injection valve operation plug (3), attachment fixation of the suction mask (5) has been carried out removable at this gas port (4). And when this suction mask (5) is made to secede from a gas port (4), it has come to be able to carry out **** fixation of the gas derivation pipe (2) and injection valve operation plug (3) which have been projected from the oxygen can (1) in the state of a wrap at the drum section upper-limit section of oxygen (1).

[0010] It is fragrant, and is attached to the inside of a suction mask (5), and the label (6) is stuck on it possible [exchange]. The adhesives layer (10) formed in the rear face while printing by the printing ink (9) which mixed the microcapsule (8) with which it is fragrant in this front face of the web material (7) which was been fragrant and attached and formed the label (6) for air permeability materials, such as textile fabrics, a nonwoven fabric, Japanese paper, and western paper, and the component is enclosed is covered with an ablation sheet (11), and it has formed.

[0011] Are fragrant, and a microcapsule (8) is crushed and the scent component in a microcapsule (6) is made to be attached and to diffuse in a suction mask (5) by [which scratch the front face of a label (6) one and carries out it by the presser foot stitch tongue, the pin, etc.] being stuck on the inside of a suction mask (5) at the time of oxygen suction. This suction mask (5) will attract with oxygen the scent diffused in the suction mask (5) from the wrap in the mouth and the nose at the time of oxygen suction.

[0012] In addition, as a scent component enclosed into a microcapsule (8), when the essential oil of a herb is used, in addition to the scientific effect by oxygen suction, the killing effect and the upsurge effect which a herb has can be acquired.

[0013] Although the above-mentioned embodiment explained to the example the suction mask (5) with which the injection valve operation plug (3) attached at the nose of cam of a gas derivation pipe (2) is equipped, you may be the suction mask of the form which makes direct connection connection of the

suction mask (5) at the nose of cam of a gas derivation pipe (2). Moreover, you may be the suction mask of form with which equips a pocket oxygen storage container with a gas extraction valve, and the gas output port of this gas extraction valve is equipped directly.

[Translation done.]

* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is the important section side elevation of the oxygen can for inhalation.

[Drawing 2] It is the cross section of a label with a scent.

[Description of Notations]

1 [-- It is fragrant, is attached and is a label and 7. / -- A web material, 8 / -- A microcapsule, 9 / -- Printing ink, 10 / -- An adhesives layer, 11 / -- Releasing paper.] -- An oxygen gas can, 5 -- A suction mask, 6

[Translation done.]

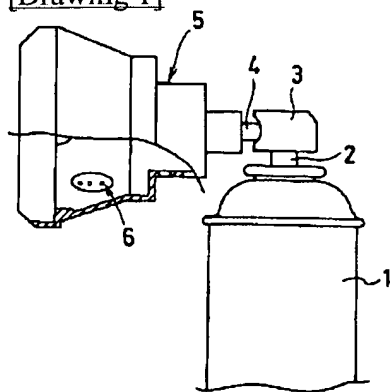
* NOTICES *

Japan Patent Office is not responsible for any damages caused by the use of this translation.

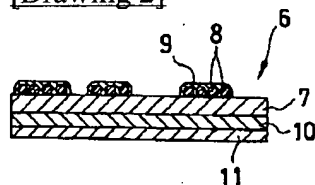
1. This document has been translated by computer. So the translation may not reflect the original precisely.
2. **** shows the word which can not be translated.
3. In the drawings, any words are not translated.

DRAWINGS

[Drawing 1]



[Drawing 2]



[Translation done.]